

# PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

# PCT

To:  
FISH & RICHARDSON P.C.  
Attn. Feigenbaum, David L.  
P.O. Box 1022  
Minneapolis, MN 55440-1022  
ETATS-UNIS D'AMERIQUE

NOTIFICATION OF TRANSMITTAL OF  
THE INTERNATIONAL SEARCH REPORT AND  
THE WRITTEN OPINION OF THE INTERNATIONAL  
SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

|   |  |
|---|--|
| Applicant's or agent's file reference<br>02103-701WO1 | Date of mailing<br>(day/month/year) 26/09/2006           |
| International application No.<br>PCT/US2006/019194    | International filing date<br>(day/month/year) 17/05/2006 |
| Applicant<br><br>BOSE CORPORATION                     |  |

1. ☒ The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

**Filing of amendments and statement under Article 19:**  
 The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):

**When?** The time limit for filing such amendments is normally two months from the date of transmittal of the International Search Report.

**Where?** Directly to the International Bureau of WIPO, 34 chemin des Colombettes  
 1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 338.82.70

**For more detailed instructions,** see the notes on the accompanying sheet.

2. ☐ The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.

3. ☐ **With regard to the protest** against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.

☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. **Reminders**

Shortly after the expiration of **18 months** from the priority date, the International application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within **19 months** from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase **until 30 months** from the priority date (in some Offices even later); otherwise, the applicant must, **within 20 months** from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of **30 months** (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the *PCT Applicant's Guide*, Volume II, National Chapters and the WIPO Internet site.

|  |   |
|--|---|
| Name and mailing address of the International Searching Authority<br>European Patent Office, P.B. 5818 Patentlaan 2<br>NL-2280 HV Rijswijk<br>Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,<br>Fax: (+31-70) 340-3016 | Authorized officer<br><br>Bernd Stephan |
|--|---|

## NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the *PCT Applicant's Guide*, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

### INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report and the written opinion of the International Searching Authority, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only (see *PCT Applicant's Guide*, Volume I/A, Annexes B1 and B2).

The attention of the applicant is drawn to the fact that amendments to the claims under Article 19 are not allowed where the International Searching Authority has declared, under Article 17(2), that no international search report would be established (see *PCT Applicant's Guide*, Volume I/A, paragraph 296).

#### What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

**When?** Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

#### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

**How?** Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Section 205(b)).

**The amendments must be made in the language in which the international application is to be published.**

#### What documents must/may accompany the amendments?

##### **Letter (Section 205(b)):**

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

**The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.**

# PATENT COOPERATION TREATY

# PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

|   |  |   |
|---|--|---|
| Applicant's or agent's file reference<br><br>02103-701WO1 | <b>FOR FURTHER ACTION</b><br><br>see Form PCT/ISA/220<br>as well as, where applicable, item 5 below. |   |
| International application No.<br><br>PCT/US2006/019194    | International filing date (day/month/year)<br><br>17/05/2006   | (Earliest) Priority Date (day/month/year)<br><br>20/05/2005 |
| Applicant<br><br>BOSE CORPORATION                         |  |   |

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

a. With regard to the **language**, the international search was carried out on the basis of:

- ☒ the international application in the language in which it was filed  
☐ a translation of the international application into \_\_\_\_\_, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box No. II)

3. ☐ **Unity of invention is lacking** (see Box No III)

4. With regard to the **title**,

- ☒ the text is approved as submitted by the applicant  
☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

- ☒ the text is approved as submitted by the applicant  
☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority

6. With regard to the **drawings**,

- a. the figure of the **drawings** to be published with the abstract is Figure No. 3c  
☐ as suggested by the applicant  
☐ as selected by this Authority, because the applicant failed to suggest a figure  
☒ as selected by this Authority, because this figure better characterizes the invention  
b. ☐ none of the figures is to be published with the abstract

# INTERNATIONAL SEARCH REPORT

International application No

PCT/US2006/019194

## A. CLASSIFICATION OF SUBJECT MATTER

INV. B60K35/00 G01C21/36

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

B60K G01C B60H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No                                 |
|-----------|--|--|
| X         | US 6 539 289 B2 (OGINO ET AL.)<br>25 March 2003 (2003-03-25)<br><br>column 9, line 61 - column 10, line 36;<br>figures 4,6,10  | 1-5,<br>7-12,<br>14-22,<br>24-36,<br>38-44,<br>46,47 |
| X         | EP 1 080 976 A (VOLKSWAGEN)<br>7 March 2001 (2001-03-07)<br><br>paragraphs [0014], [0017]; figures 2,9,10<br><br>-----<br>-/-- | 1-3,6,<br>14-21,<br>23,<br>28-31,<br>37-40,<br>45-47 |



Further documents are listed in the continuation of Box C.



See patent family annex.

\* Special categories of cited documents

\*A\* document defining the general state of the art which is not considered to be of particular relevance

\*E\* earlier document but published on or after the international filing date

\*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

\*O\* document referring to an oral disclosure, use, exhibition or other means

\*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

\*Z\* document member of the same patent family

Date of the actual completion of the international search

18 September 2006

Date of mailing of the international search report

26/09/2006

Name and mailing address of the ISA/

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040. Tx. 31 651 epo nt.  
Fax: (+31-70) 340-3016

Authorized officer

Krieger, Philippe

## INTERNATIONAL SEARCH REPORT

International application No

PCT/US2006/019194

| C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT |  |   |
|--|--|---|
| Category*  | Citation of document, with indication where appropriate, of the relevant passages                  | Relevant to claim No  |
| X  | EP 1 080 974 A (VOLKSWAGEN)<br>7 March 2001 (2001-03-07)<br><br>paragraph [0017]; figures<br>----- | 1-3,5,7,<br>9,10,<br>14-16,<br>18,20,<br>21,24,<br>25,28,<br>29,<br>31-33,<br>36,38,<br>40-42,<br>44,46 |
| A  | DE 44 12 859 C (VDO)<br>10 November 1994 (1994-11-10)<br>abstract<br>-----                         | 6,23  |
| A  | EP 0 794 408 A (PHILIPS)<br>10 September 1997 (1997-09-10)<br>-----                                |   |
| A  | US 6 650 345 B1 (SAITO ET AL.)<br>18 November 2003 (2003-11-18)<br>-----                           |   |

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2006/019194

| Patent document<br>cited in search report |    | Publication<br>date | Patent family<br>member(s)          | Publication<br>date      |
|---|----|---------------------|-------------------------------------|--------------------------|
| US 6539289                                | B2 | 25-03-2003          | JP 2003019927 A<br>US 2003023352 A1 | 21-01-2003<br>30-01-2003 |
| EP 1080976                                | A  | 07-03-2001          | DE 19941957 A1                      | 29-03-2001               |
| EP 1080974                                | A  | 07-03-2001          | AT 326362 T<br>DE 19941951 A1       | 15-06-2006<br>08-03-2001 |
| DE 4412859                                | C  | 10-11-1994          | NONE                                |                          |
| EP 0794408                                | A  | 10-09-1997          | DE 19604716 A1<br>JP 9222333 A      | 14-08-1997<br>26-08-1997 |
| US 6650345                                | B1 | 18-11-2003          | JP 2000355256 A                     | 26-12-2000               |

# PATENT COOPERATION TREATY

From the  
INTERNATIONAL SEARCHING AUTHORITY

To:

## PCT

see form PCT/ISA/220

### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)

Date of mailing  
(day:month:year) see form PCT/ISA/210 (second sheet)

Applicant's or agent's file reference  
see form PCT/ISA/220

#### FOR FURTHER ACTION

See paragraph 2 below

International application No  
PCT/US2006/019194

International filing date (day:month:year)  
17.05.2006

Priority date (day:month:year)  
20.05.2005

International Patent Classification (IPC) or both national classification and IPC  
INV. B60K35/00 G01C21/36

Applicant  
BOSE CORPORATION

#### 1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

#### 2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

#### 3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA:



European Patent Office - Gitschiner Str. 103  
D-10958 Berlin  
Tel. +49 30 25901 - 0  
Fax +49 30 25901 - 840

Date of completion of  
this opinion

see form  
PCT/ISA/210

Authorized Officer

Krieger, Philippe

Telephone No +49 30 25901-513



**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No.  
PCT/US2006/019194

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**Box No. I Basis of the opinion**

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1. With regard to the **language**, this opinion has been established on the basis of:
  - ☒ the international application in the language in which it was filed
  - ☐ a translation of the international application into , which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1 (b)).
2. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
  - a. type of material:
    - ☐ a sequence listing
    - ☐ table(s) related to the sequence listing
  - b. format of material:
    - ☐ on paper
    - ☐ in electronic form
  - c. time of filing/furnishing:
    - ☐ contained in the international application as filed.
    - ☐ filed together with the international application in electronic form.
    - ☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:



**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No.  
PCT/US2006/019194

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**Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

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1. Statement

|                               |             |            |
|-------------------------------|-------------|------------|
| Novelty (N)                   | Yes: Claims | 13         |
|                               | No: Claims  | 1-12,14-47 |
| Inventive step (IS)           | Yes: Claims |            |
|                               | No: Claims  | 1-47       |
| Industrial applicability (IA) | Yes: Claims | 1-47       |
|                               | No: Claims  |            |

2. Citations and explanations

**see separate sheet**

**Re Item V.**

- 1 Reference is made to the following documents:

D1 : US 6 539 289 B2 (OGINO ET AL.)

D2 : EP 1 080 976 A (VOLKSWAGEN)

- 2.1 Document D1 discloses (see figures 1,2,10) an information display unit for an automobile comprising a display screen 12 and a user interface presented on the display screen that simultaneously presents two display elements, each depicting information relating to a different subsystem of an automobile e.g. a navigational map and an air conditioning subsystem, wherein the user interface is configured to visually emphasize the air conditioning display element relative to the navigation display element in response to a predetermined stimulus e.g. the driver touching the key 32 and/or the button 31a.

Therefore the present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT.

D1 also discloses the features of claims 2,3,5,7,8 (see knob 35), 9 (see button 31a), 10-12 (see column 10 lines 18-36), 14-15 and 16-19 (see column 9 line 61-column 10 line 17).

As the first embodiment of D1 also discloses display elements relating to an audio subsystem in figure 6, it is believed that the second embodiment also is meant to exhibit this functionality so that the subject-matter of claim 4 is not new.

- 2.2 Providing touch sensitive display elements is a routine measure for the man skilled in automobile display screens. Therefore claim 13 does not add anything inventive to the subject-matter of the claims on which it depends.

- 3 Document D2 discloses (see paragraph 14; figures 1,2) an information display unit for an automobile comprising a display screen 1 and a user interface presented on the display screen that simultaneously presents two display elements, each depicting

**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING  
AUTHORITY (SEPARATE SHEET)**

International application No.

PCT/US2006/019194

information relating to a different subsystem of an automobile e.g. a navigational map and a fuel or telephone system, wherein the user interface is configured to visually emphasize the navigation display element relative to the other display element in response to a predetermined stimulus e.g. the automobile approaching a turning manoeuvre.

Therefore the subject-matter of claim 6 is not new in the sense of Article 33(2) PCT.

- 4 D1 also discloses the features of claims 20-22,24-36,38-44,46 and 47.  
D2 also discloses the features of claims 23,37 and 45.